

Climate “Schoolkit”

This website is here to provide resources for National Weather Service employees who are doing school visits to talk about climate. In addition to the resources linked here, those who are interested in doing outreach to schools are urged to go through the elements of the [Professional Development Series on Climate Services](#), including attending the [Operational Climate Services Residence Course](#), in order to provide a foundation of knowledge about National Weather Service climate services.

Speaker Notes

Download [here](#)

The attached file will provide you a quick list of notes to mention during your presentation. The notes provide a foundation of a presentation that will work for upper elementary to high school level, but they should be adjusted as appropriate for the audience. (For example, the language should be simplified for an elementary school audience, with more hands-on activities; meanwhile, high school students with computer access could follow along links as topics are covered.) The notes also can be used to build upon for adult audiences, as well.

Links

Download [here](#)

OAX customized: download [here](#)

Links to climate information providers and resources for teachers are provided in a document linked above, as well as links provided below. The links can be customized to specific area partners in climate services, as done in the OAX document.

Data Sources

[National Weather Service](#)
[Regional Climate Centers](#)
[NASA Climate Time Machine](#)
[NASA Key Indicators](#)
[CoCoRaHS](#)

Climate Predictions

[NOAA Climate Prediction Center](#)

Climate Information

[NOAA Climate Services](#)
[Difference between Weather and Climate \(NASA\)](#)

Teacher Resources

[NOAA Education Resources](#)
[NWS Education](#)

[NASA Climate Change for Educators](#)
[USDA Forest Service Conservation Education](#)
[Teachers' Domain, Climate](#)
[PBS Teachers: STEM Professional Development](#)
[UCAR Understanding Climate Change](#)
[UCAR Global Change Instruction Program](#)
[UCAR Kids' Crossing – Living in the Greenhouse](#)
[NCAR Climate Discovery](#)
[Difference between Weather and Climate](#)

Videos

[NASA Climate Reel](#)
[The Water Channel](#)

Activities

This section has room to grow! Please send suggestions if you've done any successful activities. These should be quick demonstrations related to some aspect of climate or climate change that can involve the students. Including some kind of visual activity will help engage students and allows a presenter do to more than just talk. The teacher resources provided in the Links section have ideas for longer-lasting activities. Have fun!

[Loaded Dice](#)

Videos

The videos linked below are all available at the resources listed in the links section, but are provided here to get to a few more specific videos. Before a school visit, download or link to whichever links will be interesting to your audience in your area. All of the videos linked below are short and can be used as part of your presentation, as an attention-grabbing beginner, a break in the talking in the middle, or a wrap-up near the end. Explore the resources above for additional videos, as well.

NASA: [Piecing Together the Temperature Puzzle](#) (downloadable) – 5:48

NOAA: [Taking the Ocean's Temperature](#) (downloadable) – 2:31

Teachers' Domain: Climate Wisconsin series (all downloadable)

[Phenology](#) – 2:32

[Fly Fishing](#) – 3:29

[Ice Fishing](#) – 2:38

[Sugaring](#) – 3:27

[Birkebeiner](#) – 3:53

American Museum of Natural History: [The Ecology of Climate Change](#) – 8:07

Enjoy your school visits!

Please send questions, feedback, and ideas for additions to the page to
Barbara.Mayes@noaa.gov

